



HIV-1 SEROPREVALENCE AND RISK BEHAVIORS AMONG
YOUNG MEN WHO HAVE SEX WITH MEN

SAN FRANCISCO/BERKELEY, CALIFORNIA, 1992-1993

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HIV-1 seroprevalence and
risk behaviors among
[1993?]

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YOUNG MEN'S SURVEY TEAM AND COLLABORATORS

Principal Investigator: George Lemp, Dr.P.H.

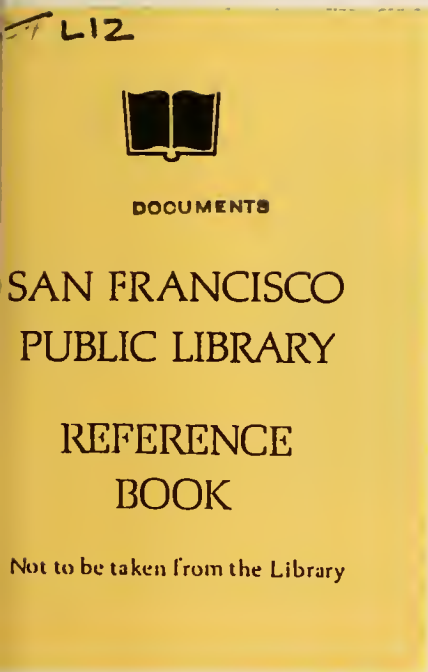
Study Coordinator: Danny Givertz

Epidemiologist: Anne Hirozawa, M.P.H.

Operations Manager: Giuliano Nieri

Research Associates: Jason Bishop, Vincent Fuqua, Mario Hernandez

Assistant Coordinators: Sean Nguyen, Melissa Jones



	<u>Advisory Committee</u>	<u>Volunteer Research Assistants</u>	<u>City of Berkeley Health Department</u>
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ane	Ron Henderson	Elliot Ramos	
	Galen Leung		
nney	Sean Little		
ey	Tom Lindsay	<u>Microbiology Lab</u>	<u>Special Thanks to</u>
s	Steve Mills	Art Back	Berkeley Free Clinic
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			Elizabeth Rosenberg
			Susan Wayne
			Youth Advocates

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Kevin McKinney	Tom Lindsay	<u>Microbiology Lab</u>	<u>Special Thanks to</u>
Paul O'Malley	Steve Mills	Art Back	Berkeley Free Clinic
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Objectives

- To estimate the prevalence of HIV-1 infection and of markers for hepatitis B virus and syphilis among 17 to 22 year-old men who have sex with men, who frequent venues in San Francisco and Berkeley, CA and who reside in the 9-county San Francisco Bay Area.
- To estimate the level of risk behaviors in this population.
- To measure the association between HIV infection and various factors including sexual and drug use histories, HIV antibody testing history, history of STDs, and demographic characteristics.

Methods

- We surveyed 474 young men 17 to 22 years of age at 26 locations in San Francisco and Berkeley, CA during 1992 and 1993.
- Survey locations included street sites, dance clubs, bars, sex clubs, and parks identified in focus groups as sites frequented by young men who have sex with men.
- The number of persons randomly selected from each site was based on sampling with probability proportional to the volume of persons frequenting that setting in a given week.

Methods

(Continued-1)

- During field visits to each of the 26 venues, young men were randomly sampled as they walked down a preselected stretch of sidewalk or as they entered a venue or waited in line.
- Bay Area residents 17 to 22 years of age were eligible for inclusion in the survey.
- We recorded the number of persons approached, their age, race/ethnicity, county of residence, and whether they accepted or declined enrollment.
- Sixty-one percent of 778 eligible persons approached agreed to participate in the survey.

1871

Methods

(Continued-2)

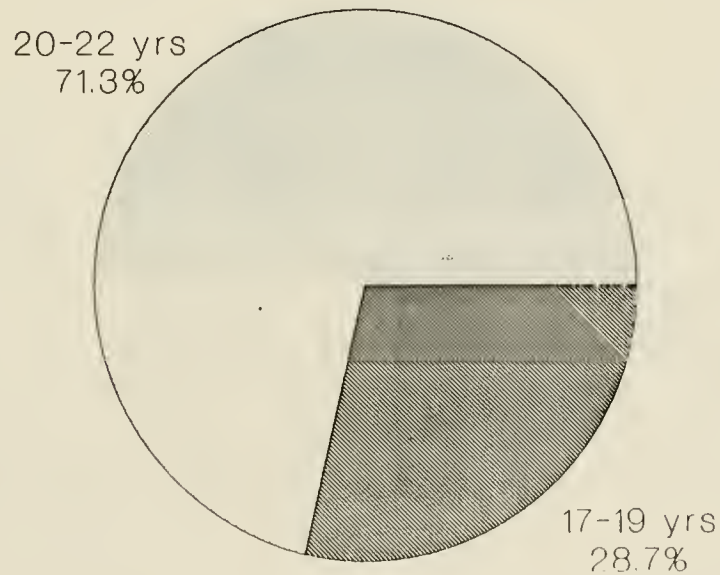
- Informed consent, interview, blood draw and prevention counseling were provided in a 21-foot recreational vehicle parked near the sampling venue.
- A trained interviewer conducted a structured face-to-face interview using a standardized 87-item questionnaire.
- Interview questions included demographics, sexual and drug use histories, history of STDs, history of HIV testing, access to medical care, and beliefs and attitudes.

Methods

(Continued-3)

- Specimens were tested for HIV-1, present and past syphilis infection (VDRL & MHA-TP), and markers of hepatitis B (HBsAg & HBcAb).
- A complete blood count (CBC), and tests for levels of T-lymphocytes and beta-2 microglobulin were performed for each specimen.
- Post-test results and counseling were offered two weeks after interview and blood draw.
- The analyses were limited to 425 men who reported sex with men or who self-identified as gay or bisexual.

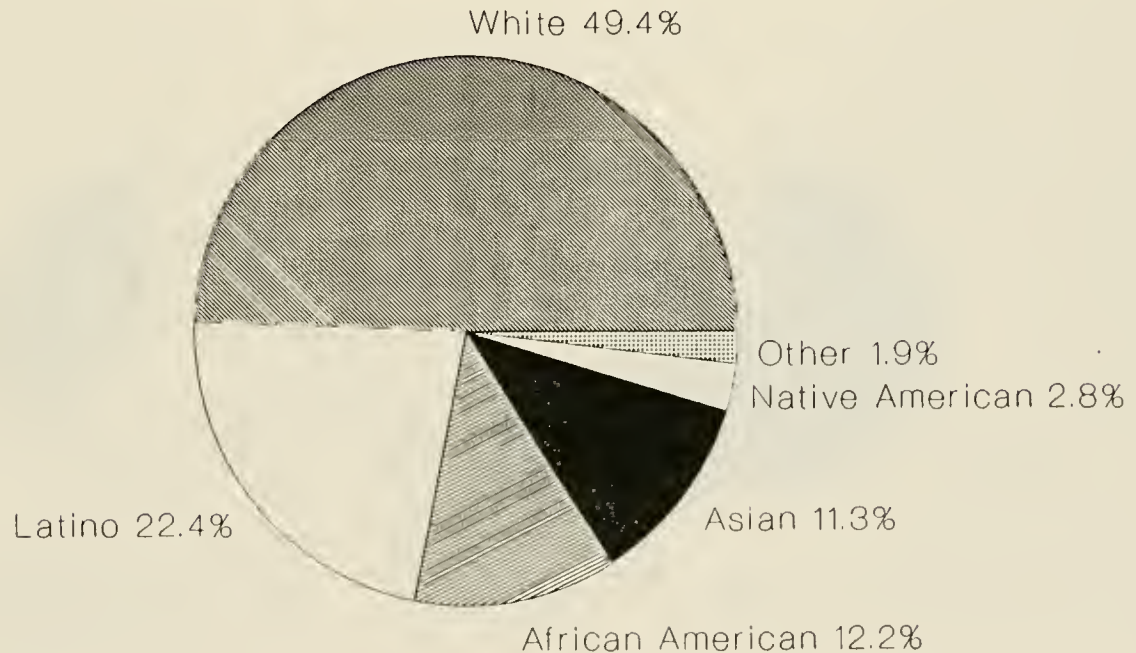
Age Group for Young Men who Have Sex with Men who Participated in the Young Men's Survey



(n=425)

San Francisco/Berkeley, 1992-93

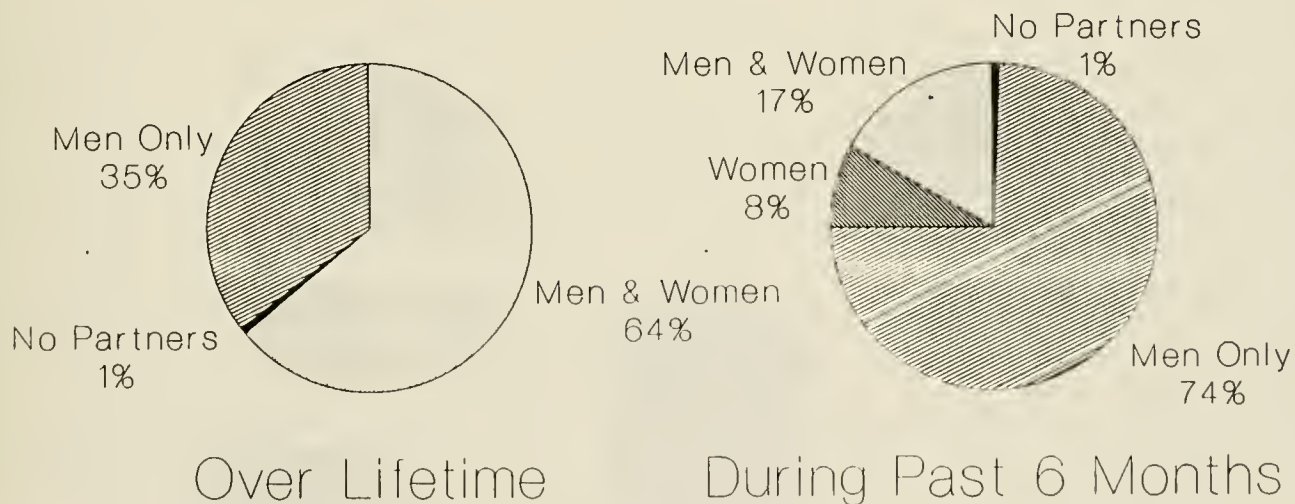
Race/Ethnicity for Young Men who Have Sex with Men who Participated in the Young Men's Survey



(n=425)

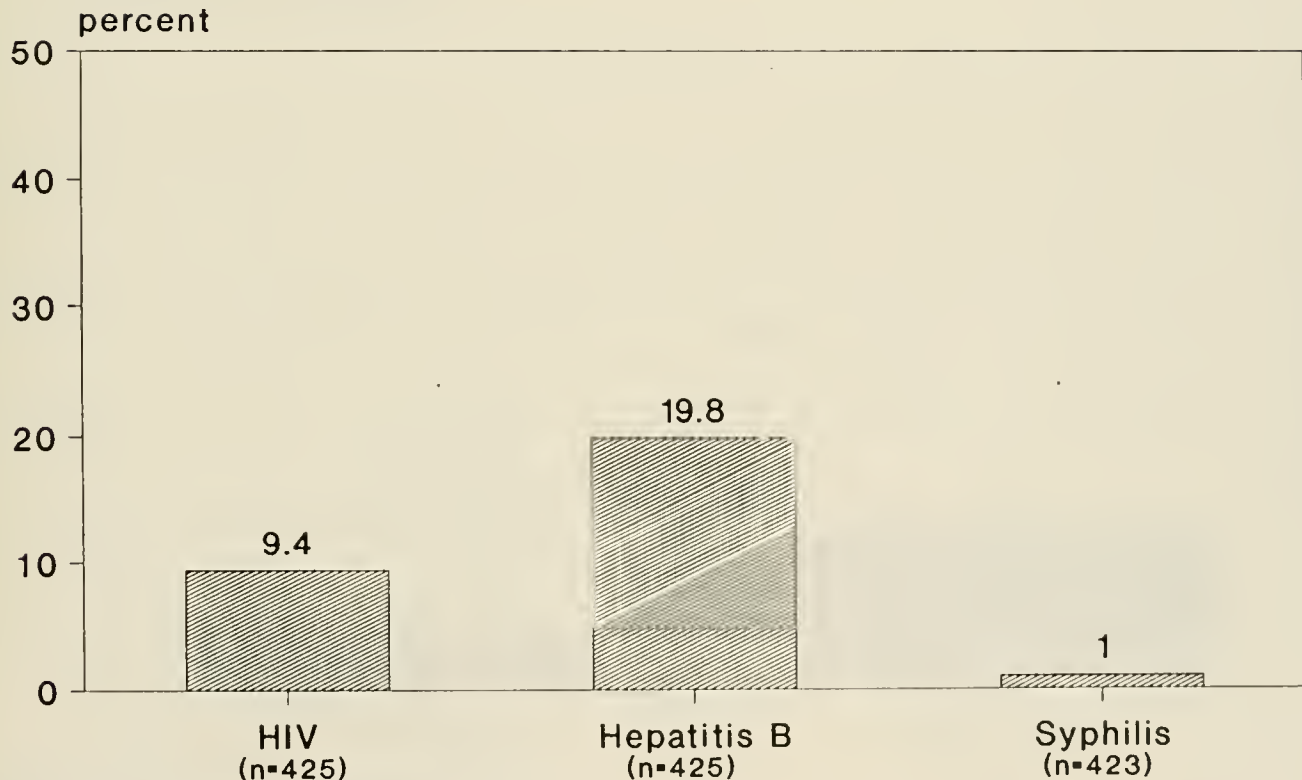
San Francisco/Berkeley, 1992-93

Gender of Sexual Partners Among Young Men who Have Sex with Men YMS: San Francisco/Berkeley, 1992-93



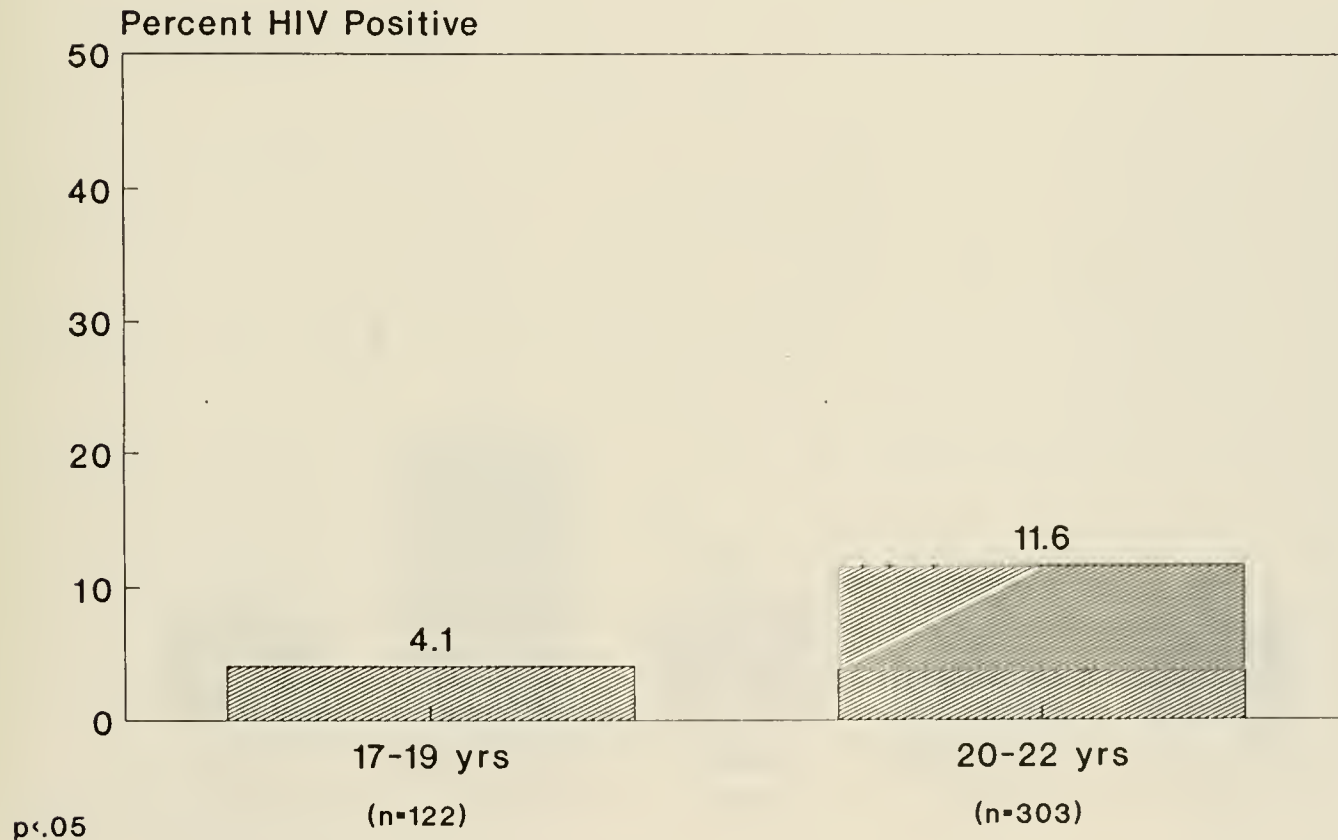
(n=425)

Prevalence of HIV and Markers for Hepatitis B and Syphilis among Young Men who have Sex with Men

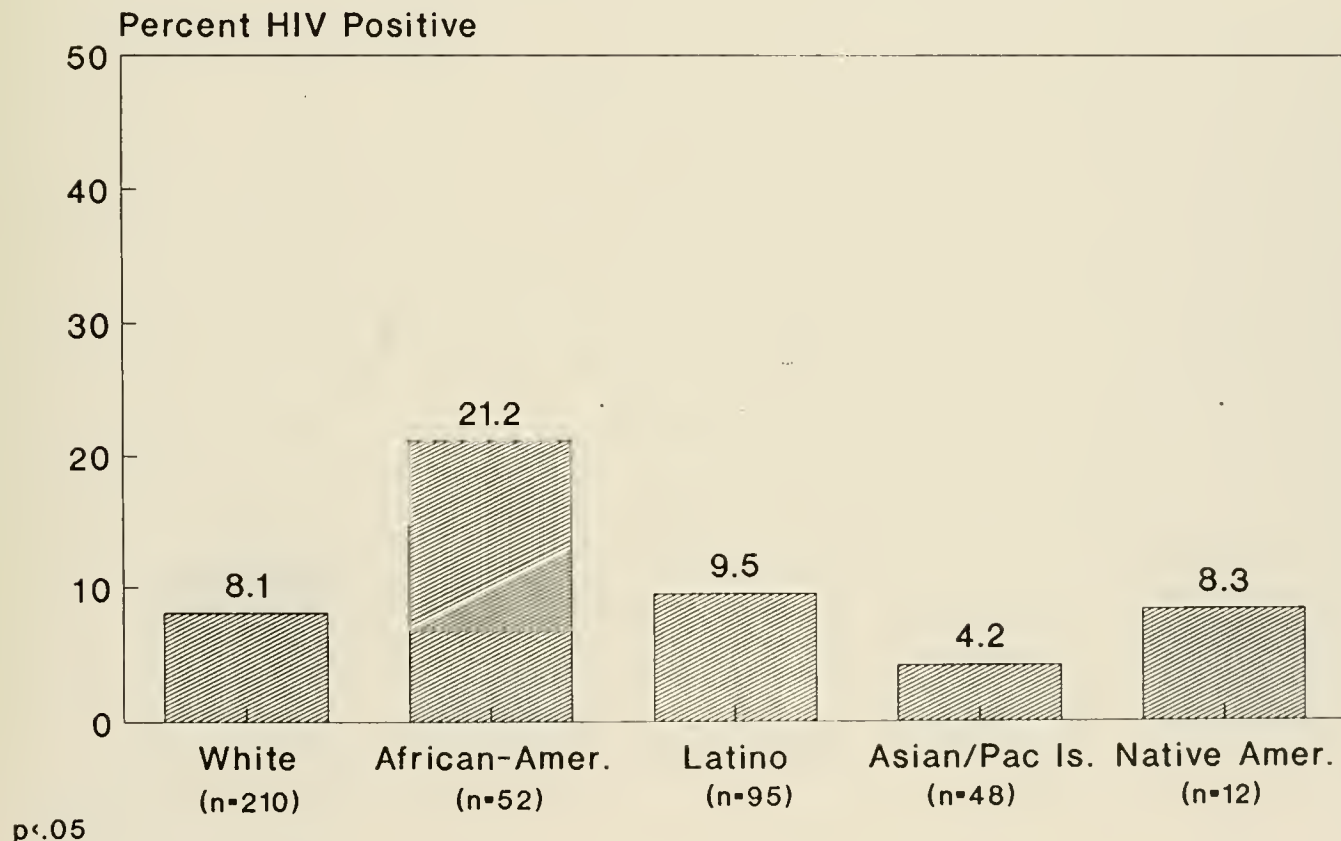


YMS: San Francisco/Berkeley, 1992-93

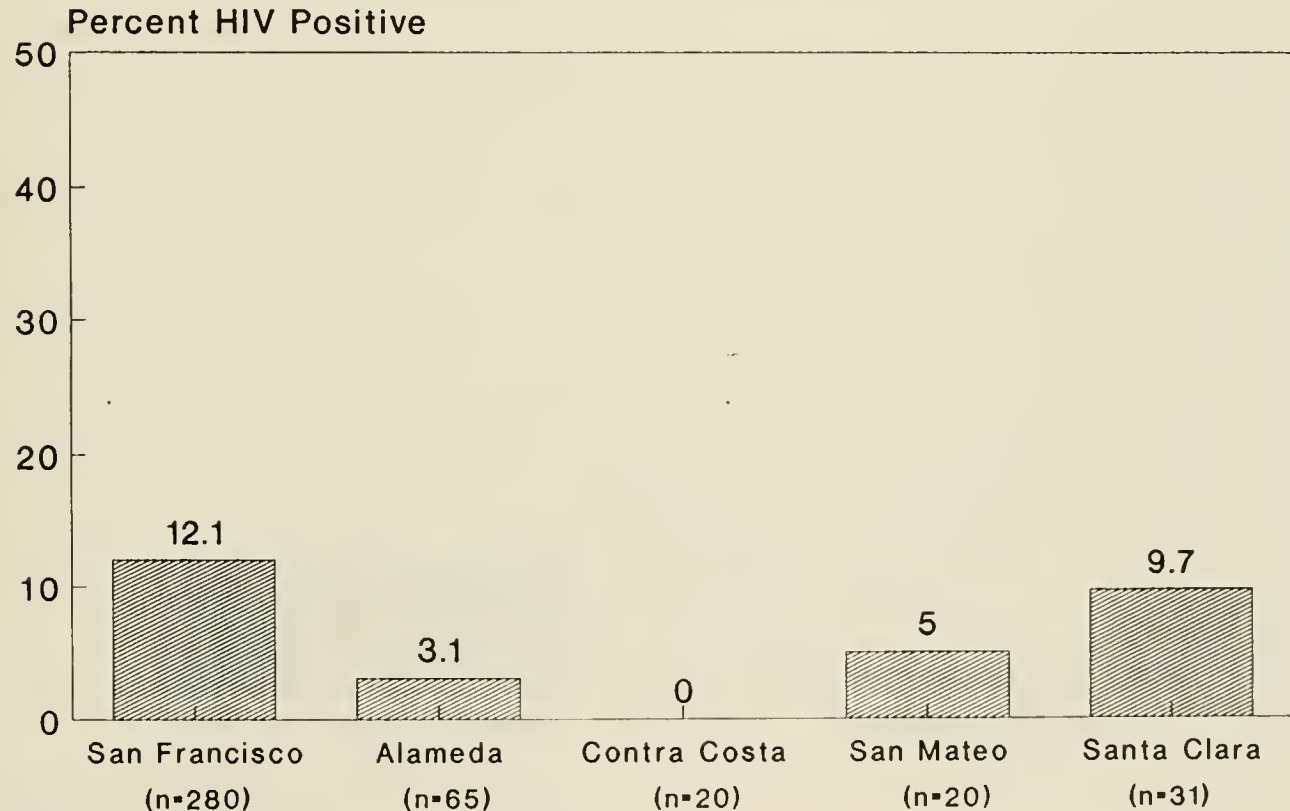
Seroprevalence of HIV by Age Group Among Young Men who Have Sex with Men YMS: San Francisco/Berkeley, 1992-93



Seroprevalence of HIV by Race/Ethnicity Among Young Men who Have Sex with Men YMS: San Francisco/Berkeley, 1992-93

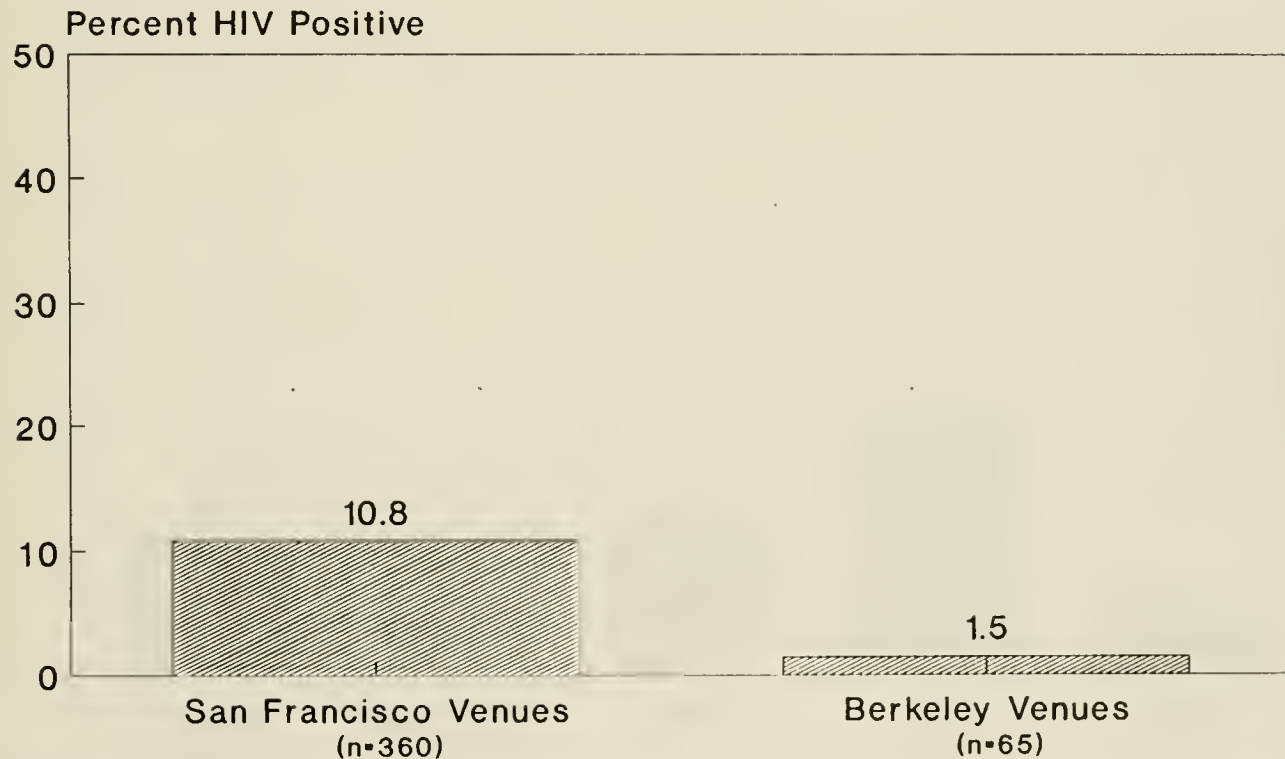


Prevalence of HIV by County of Residence among Young Men who have Sex with Men YMS: San Francisco/Berkeley, 1992-93



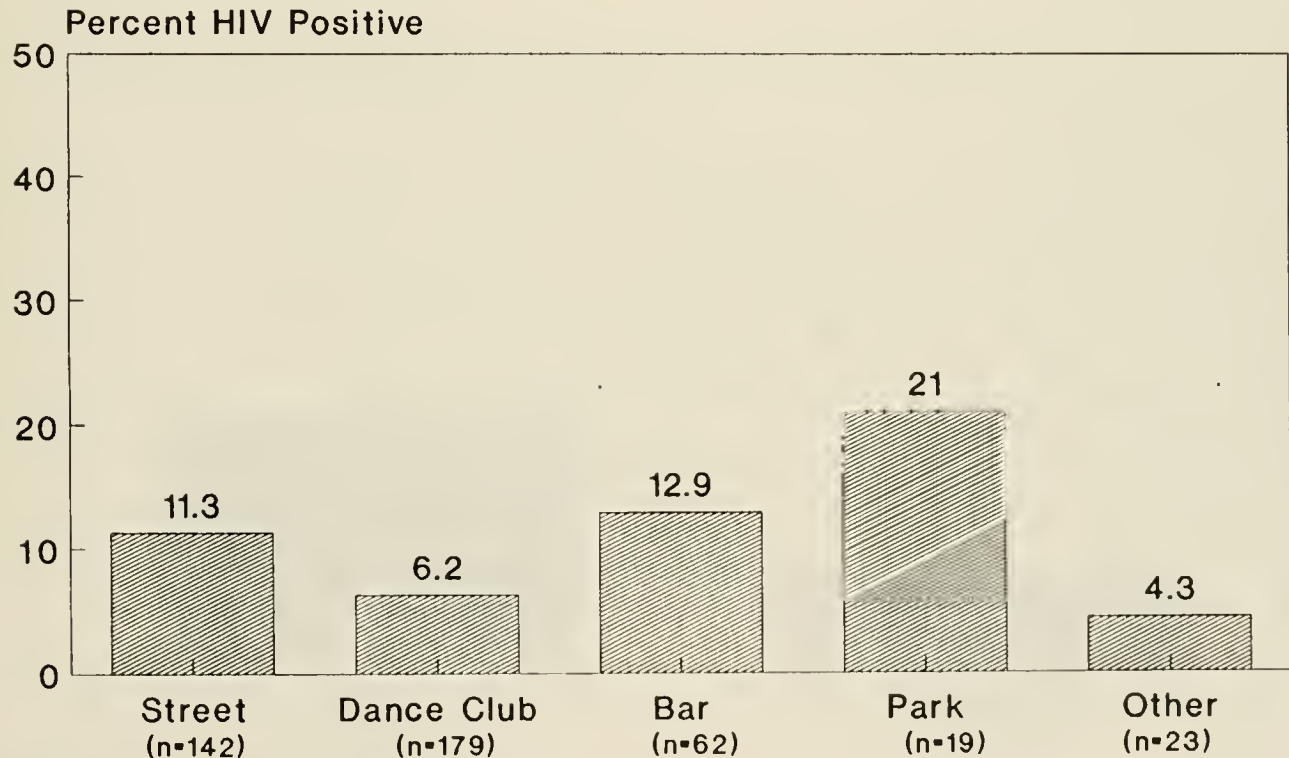
p = .34

Prevalence of HIV by Location of Sampling Venues for Young Men Who Have Sex with Men



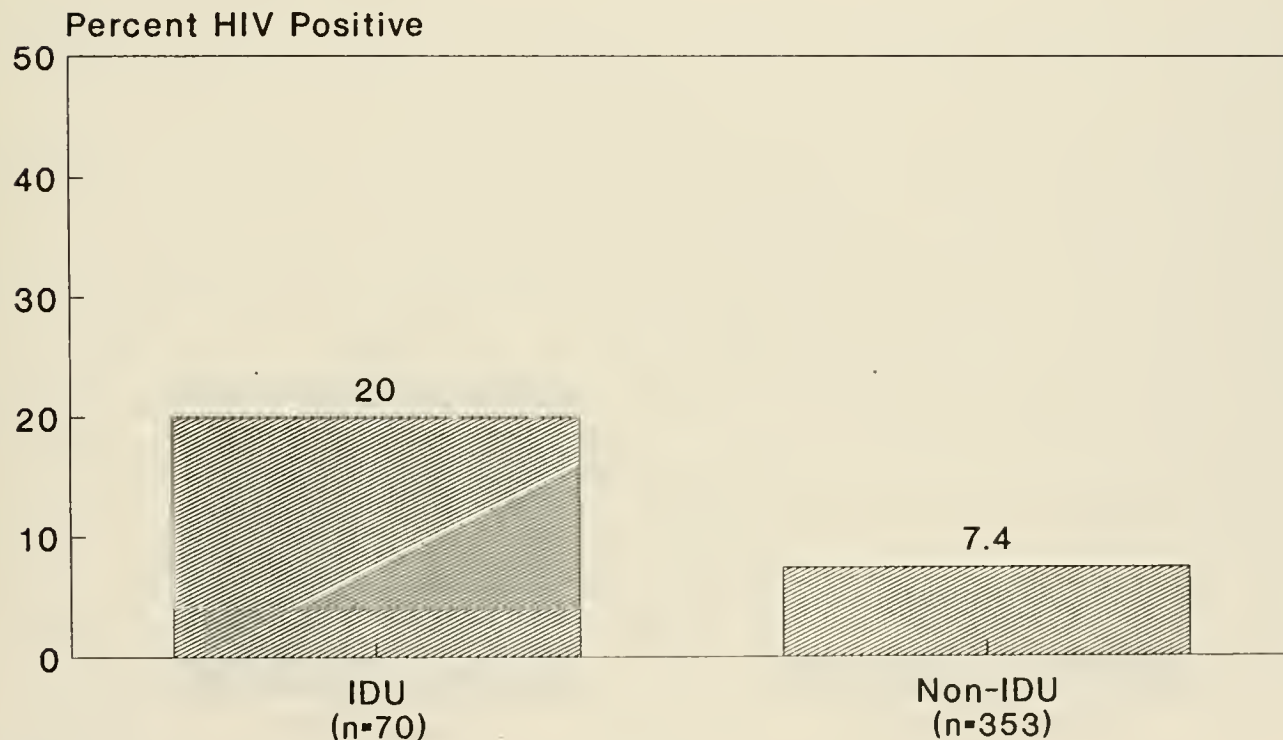
YMS: San Francisco/Berkeley, 1992-93
 $p < .05$

Prevalence of HIV by Type of Sampling Venue Among Young Men who Have Sex with Men



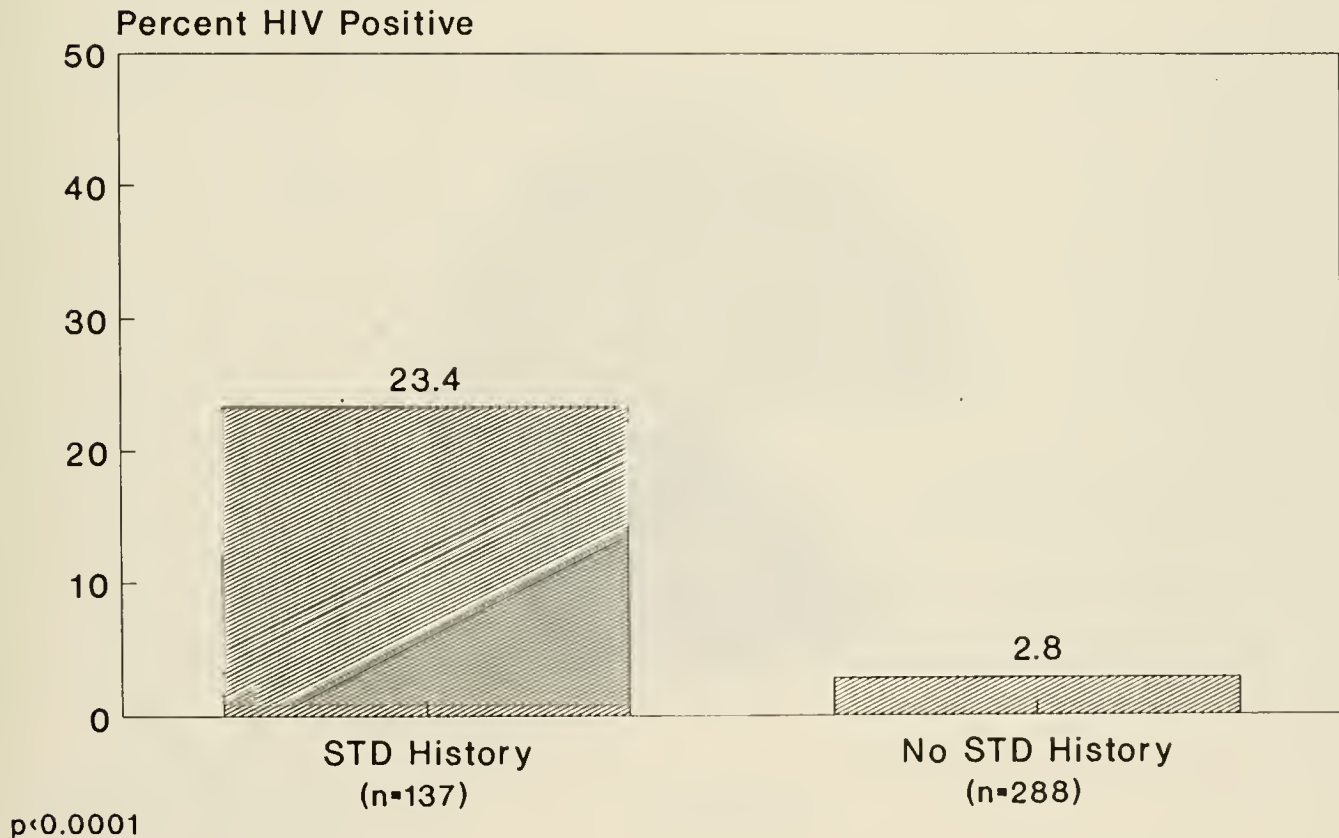
YMS: San Francisco/Berkeley, 1992-93
p=.12

Seroprevalence of HIV by Lifetime Injection Drug Use History Among Young Men who Have Sex with Men

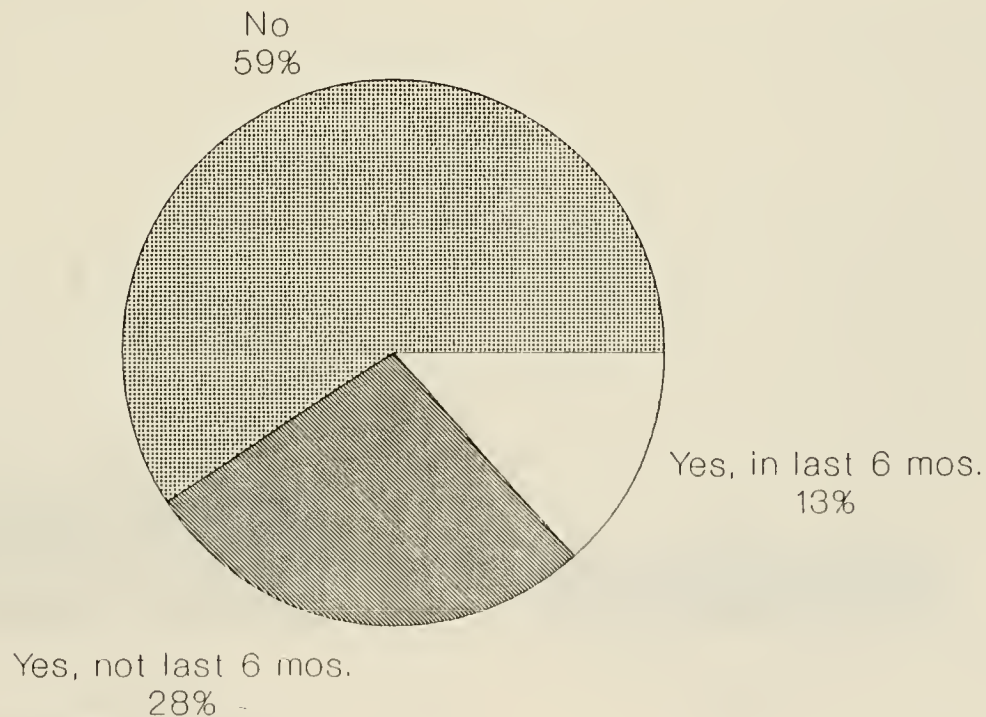


YMS: San Francisco/Berkeley, 1992-93
 $p < 0.001$

Seroprevalence of HIV by STD History among Young Men who Have Sex with Men YMS: San Francisco/Berkeley, 1992-93

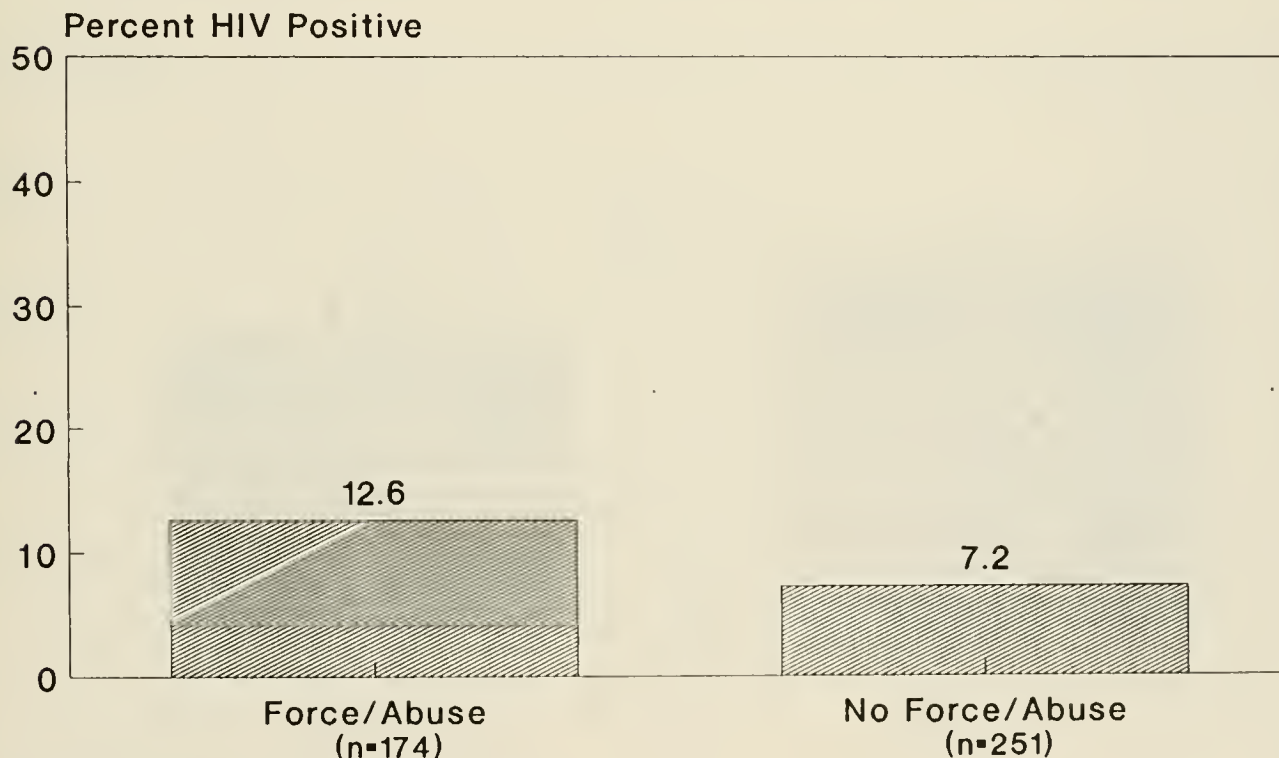


History of Forced Sex/Sexual Abuse Among Young Men who Have Sex with Men YMS: San Francisco/Berkeley, 1992-93



(n=425)

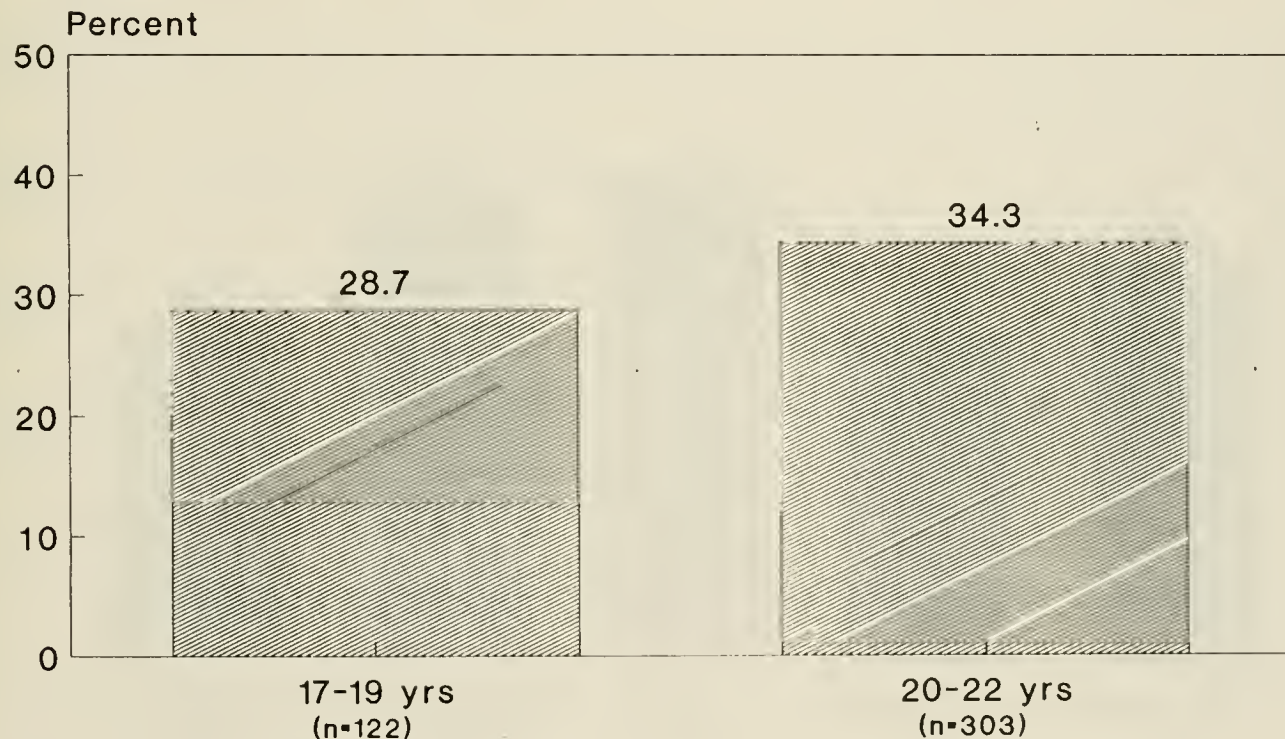
Prevalence of HIV by Lifetime History of Forced Sex/Sexual Abuse Among Young Men who Have Sex with Men



YMS: San Francisco/Berkeley, 1992-93

p = 0.06

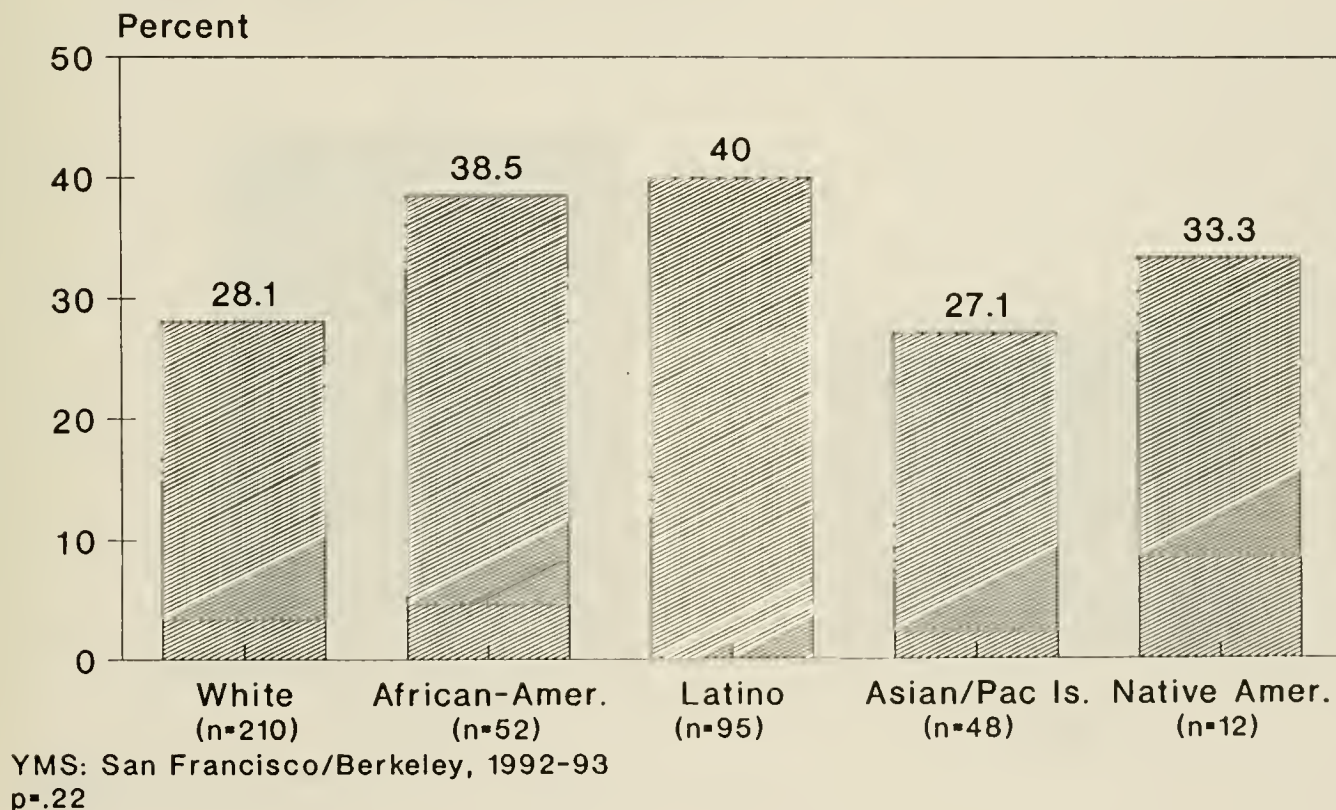
Prevalence of Unprotected Anal Sex in Last 6 Months by Age Group Among Young Men who Have Sex with Men



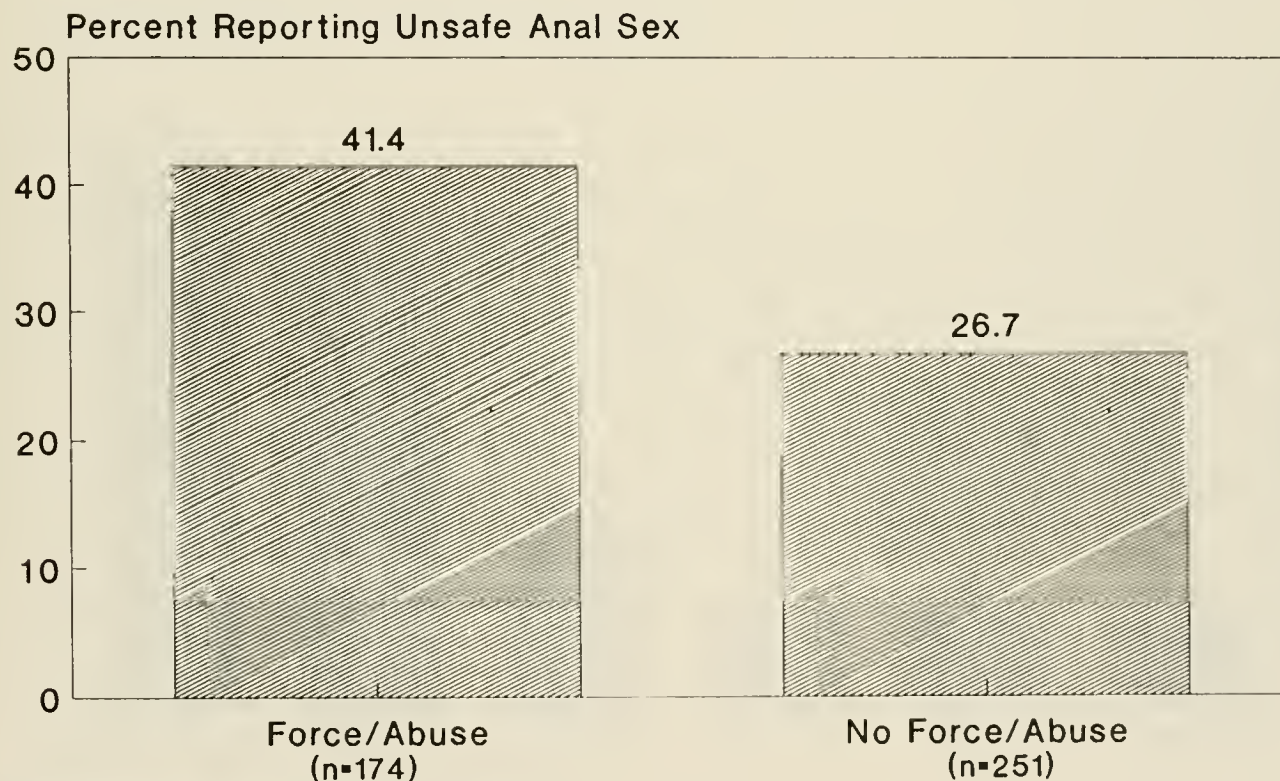
YMS: San Francisco/Berkeley, 1992-93

p=.26

Prevalence of Unprotected Anal Sex in Last 6 Months by Race/Ethnicity Among Young Men who Have Sex with Men

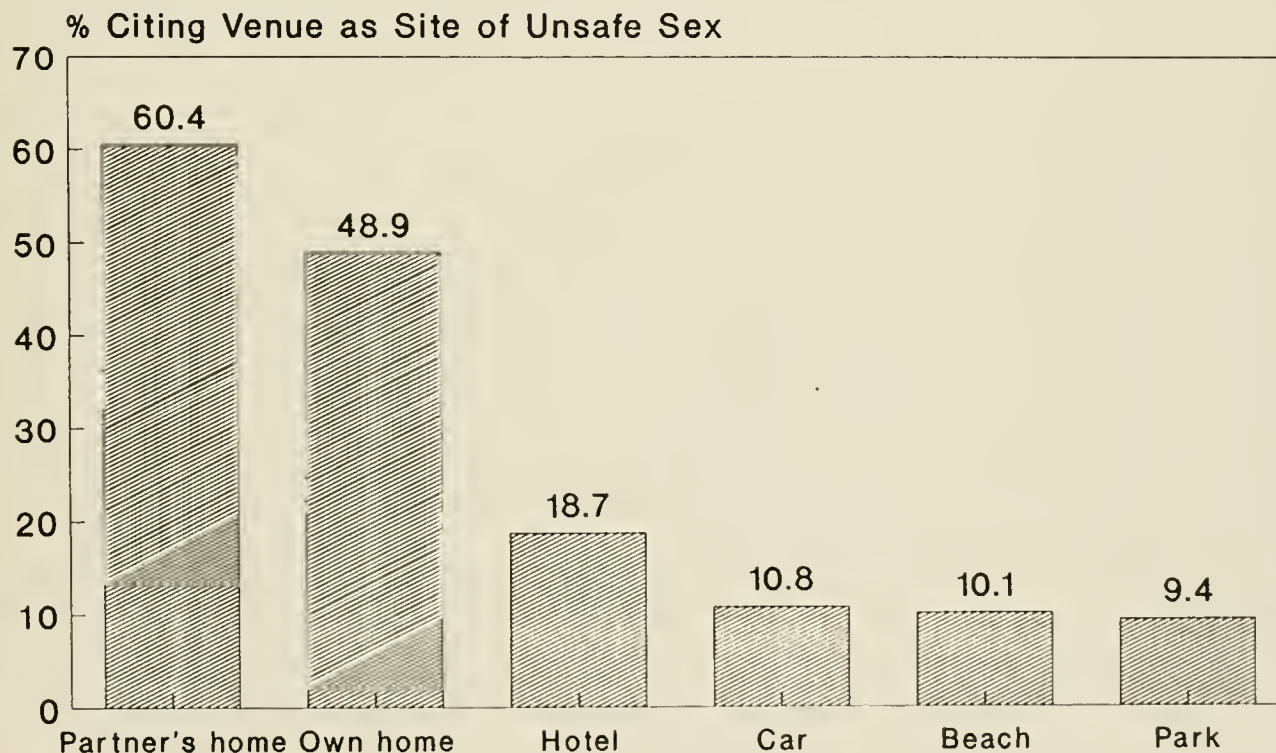


Unprotected Anal Sex in Last 6 Months by Lifetime History of Forced Sex/Abuse Among Young Men who Have Sex with Men



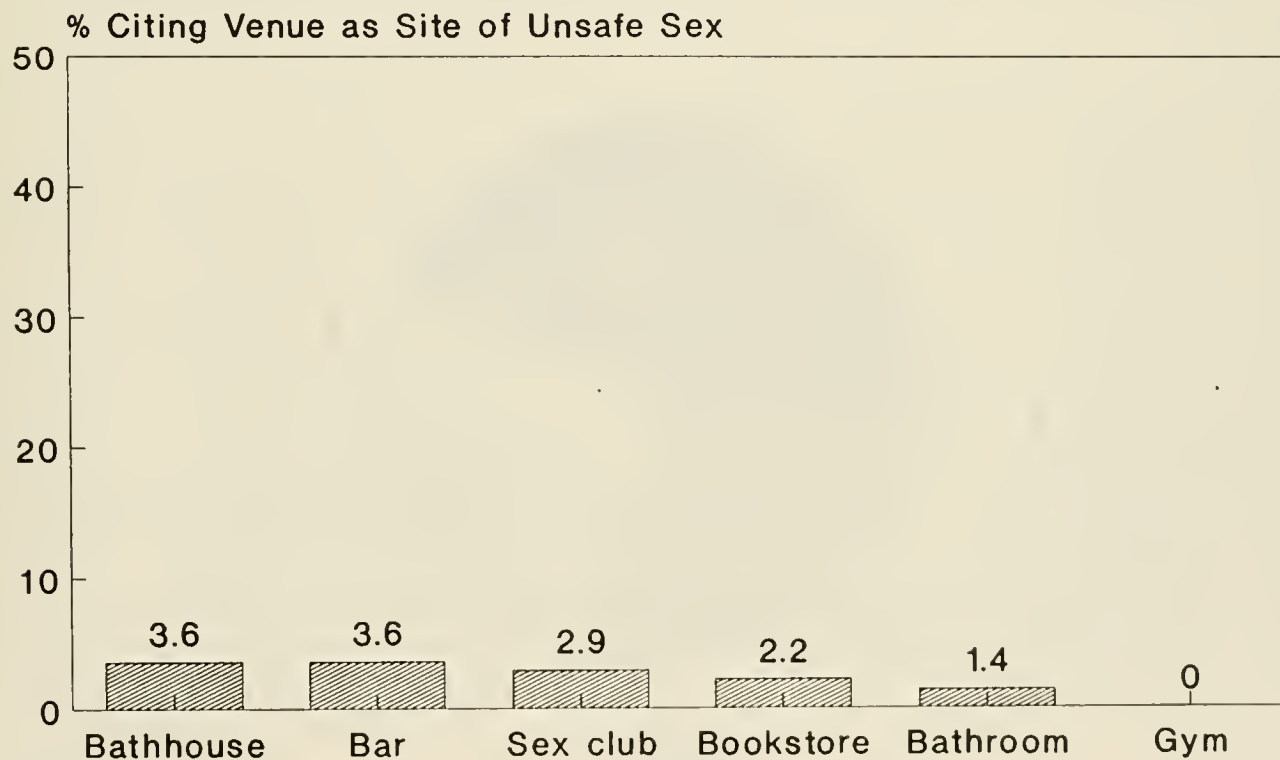
YMS: San Francisco/Berkeley, 1992-93
 $p < .005$

Venues Where Unsafe Anal Sex Occurs for Young Men Who Reported Unprotected Anal Sex with Men in the Last 6 Months (1)



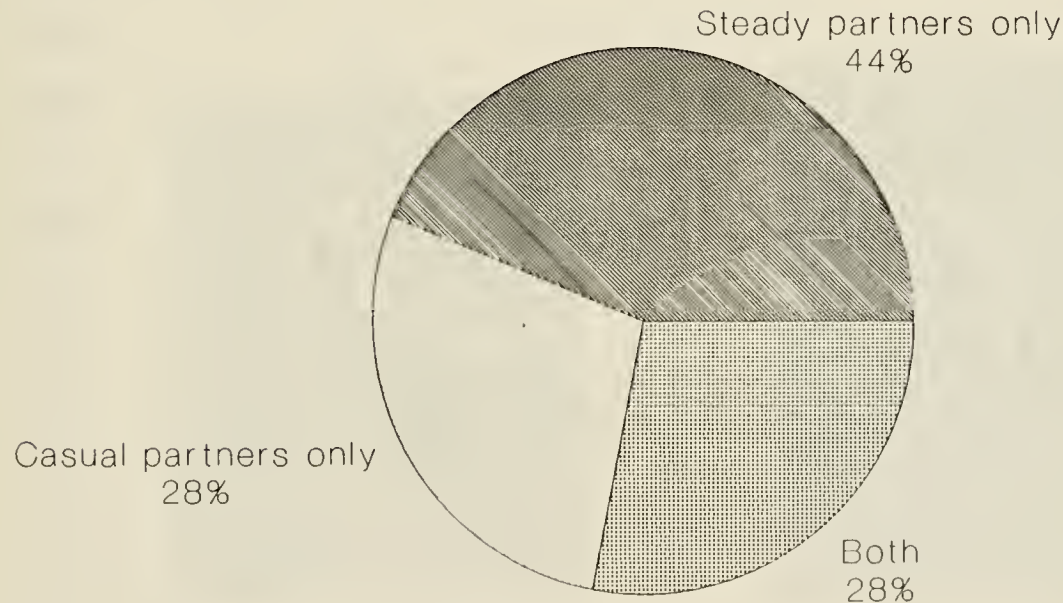
YMS: San Francisco/Berkeley, 1992-93 (n=139)

Venues Where Unsafe Anal Sex Occurs for Young Men Who Reported Unprotected Anal Sex with Men in the Last 6 Months (2)



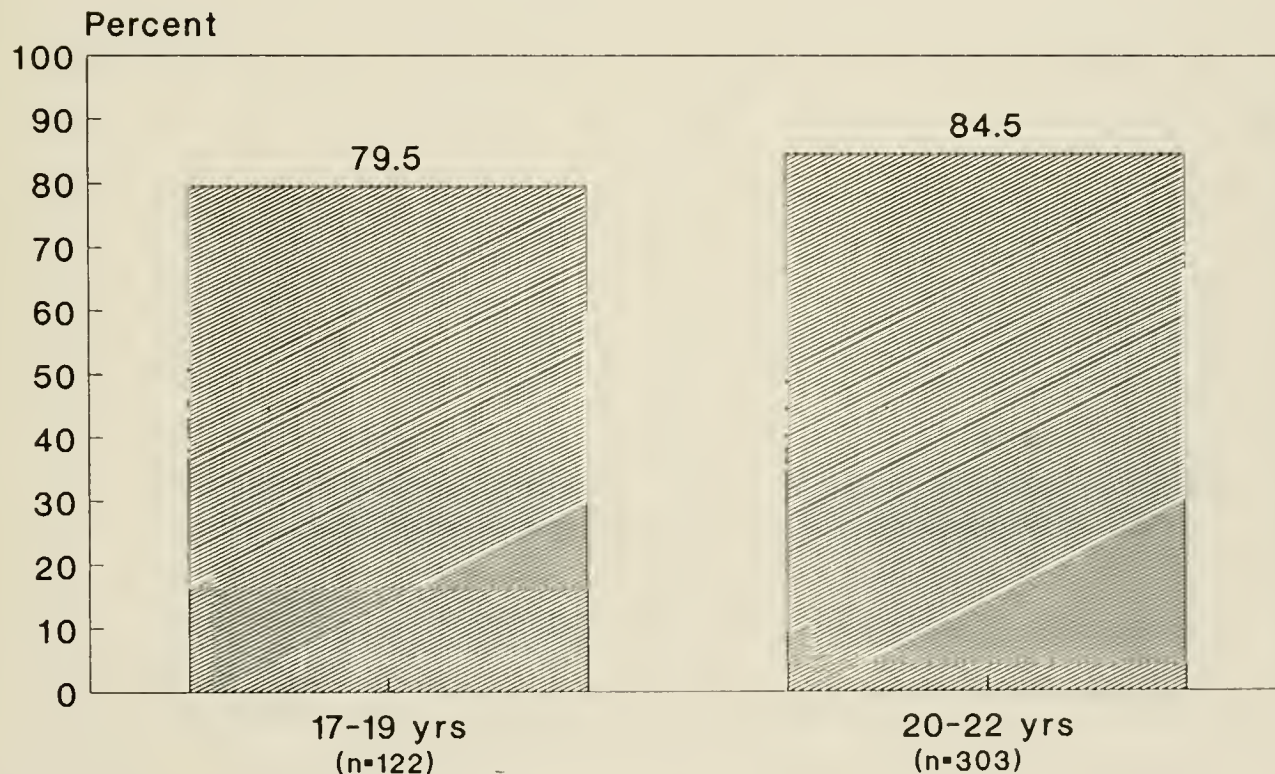
YMS: San Francisco/Berkeley, 1992-93 (n=139)

Respondents Reporting Unprotected Anal Sex in the Past 6 Months among Young Men who have Sex with Men



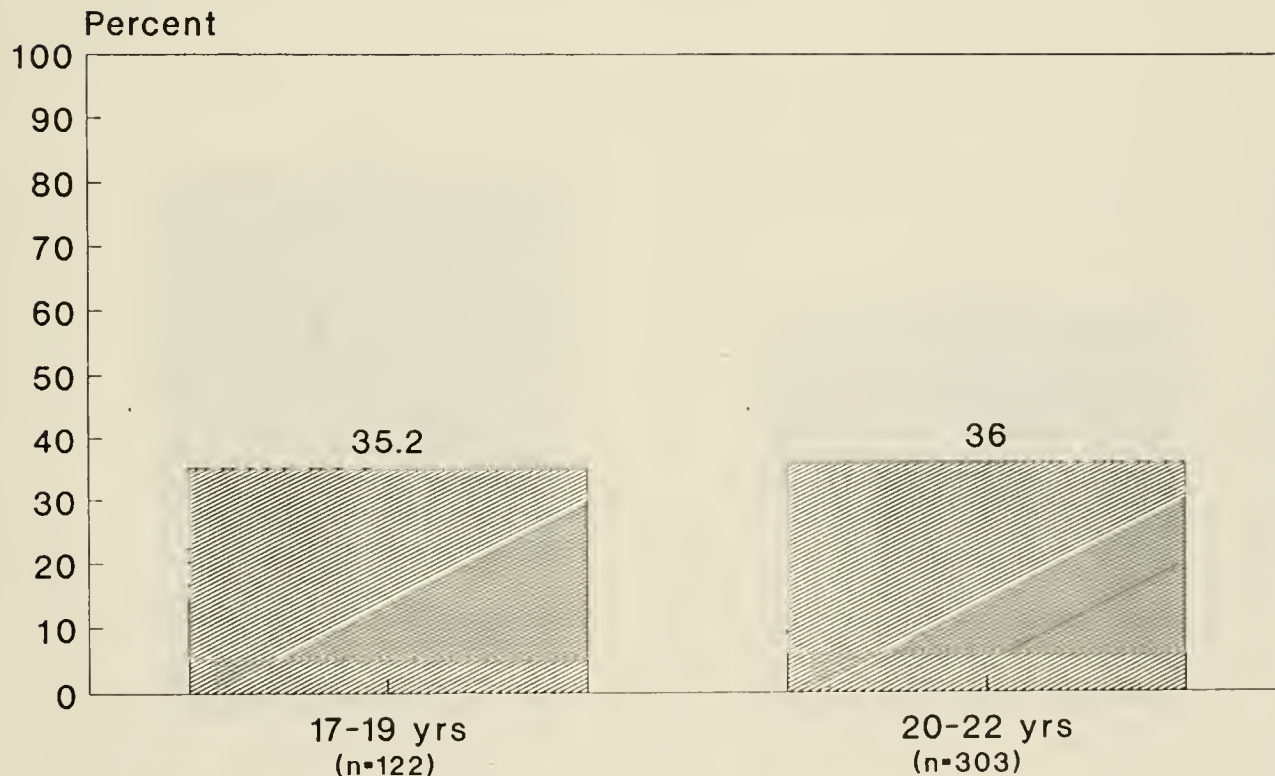
(n=139)

Prevalence of Unprotected Oral Sex in Last 6 Months by Age Group Among Young Men who have Sex with Men



YMS: San Francisco/Berkeley, 1992-93
p=.22

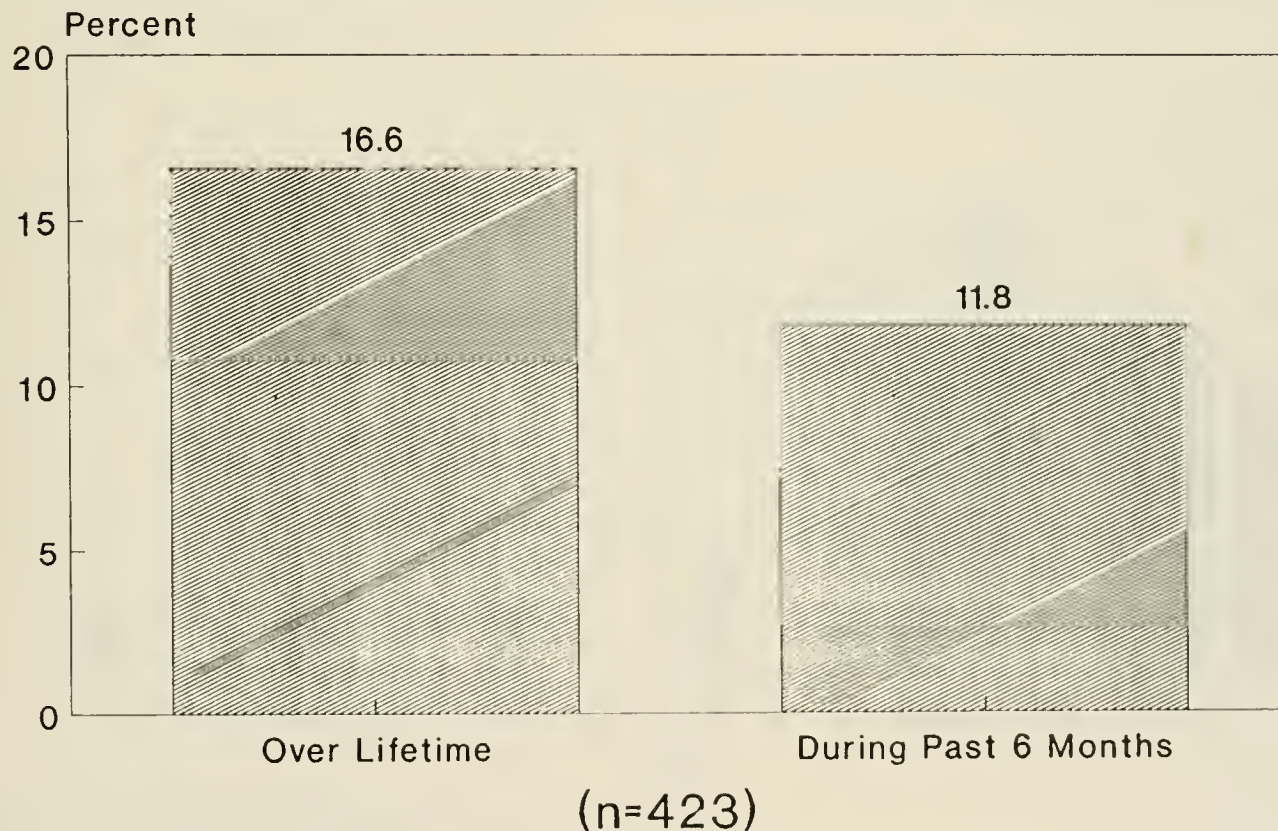
Prevalence of Unprotected Oral Sex with Ejaculation in Last 6 Mos. by Age Group Among Young Men who have Sex with Men



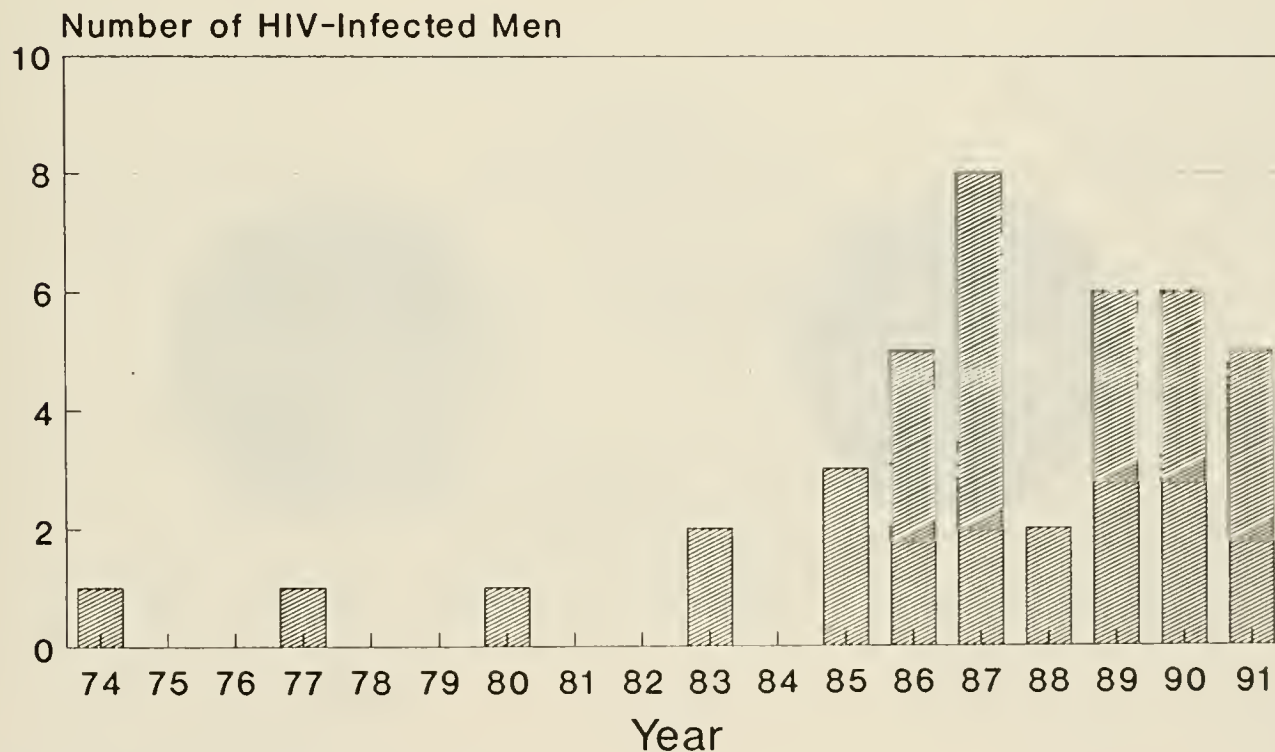
YMS: San Francisco/Berkeley, 1992-93
p=.89



Prevalence of Injection Drug Use Among Young Men who Have Sex with Men YMS: San Francisco/Berkeley, 1992-93



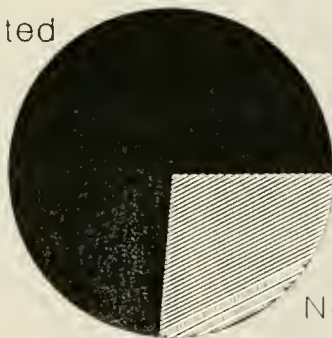
Year of First Occurrence of Injection Drug Use or Anal Sex Among HIV-Infected Young Men who Have Sex with Men



YMS: San Francisco/Berkeley, 1992-93

HIV Antibody Testing History among Young Men who have Sex with Men YMS: San Francisco/Berkeley, 1992-93

Ever Tested
74%



Never Tested
26%

All Participants
(n=425)

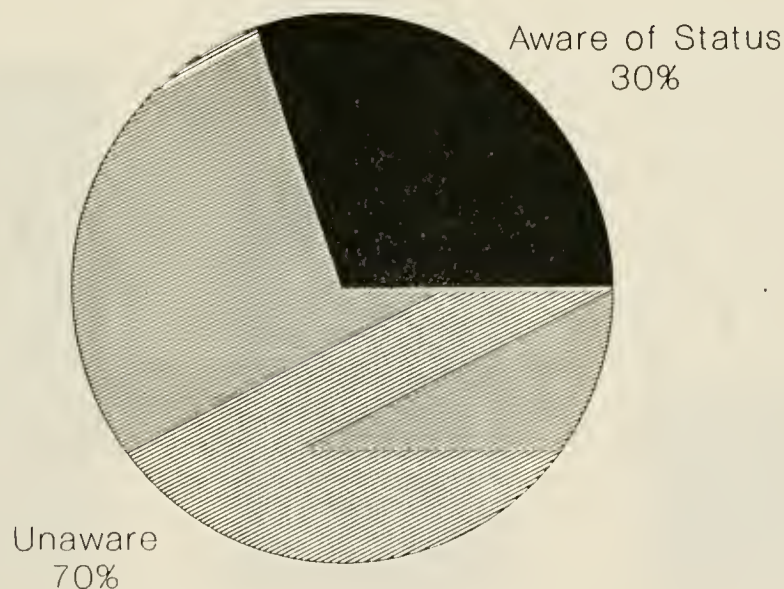
Ever Tested
90%



Never Tested
10%

HIV+ Participants
(n=40)

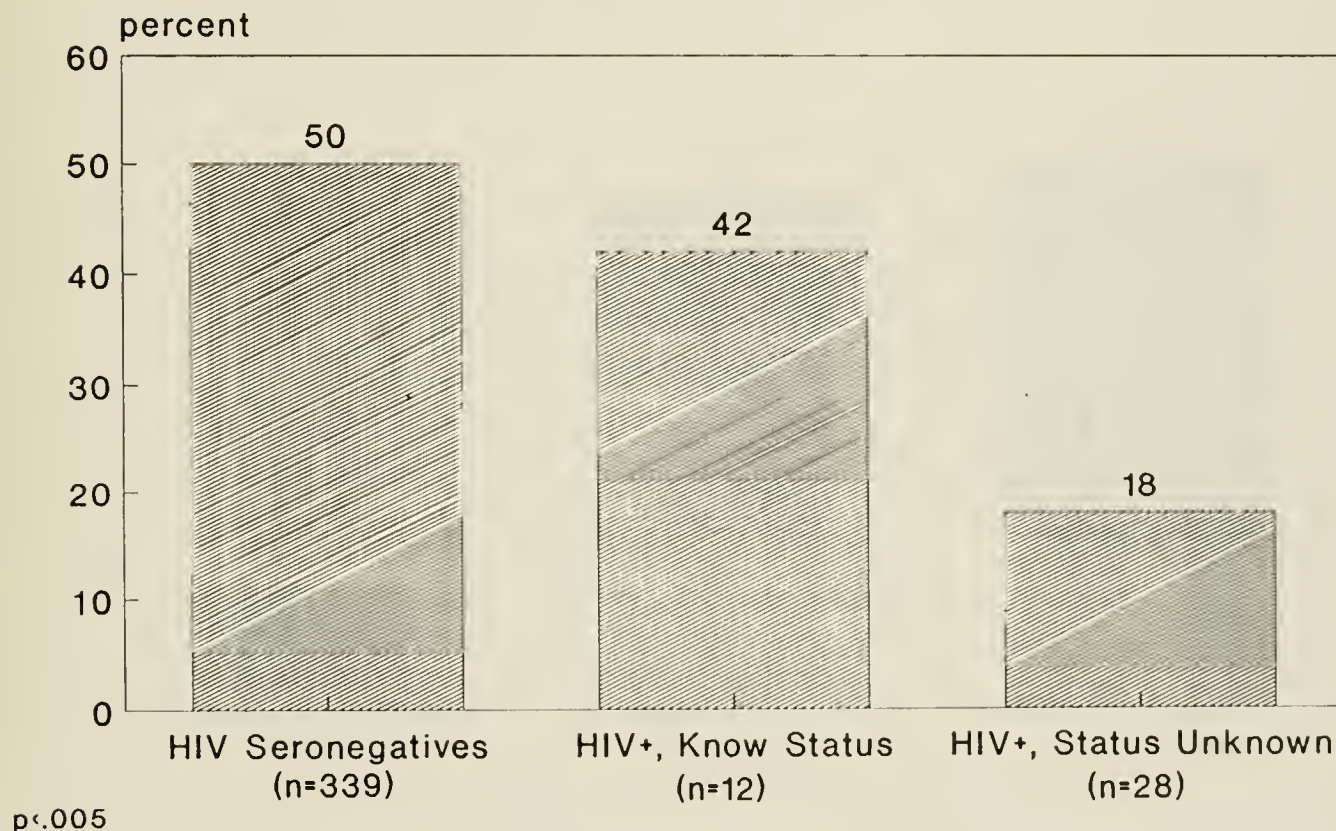
Percentage of HIV-Infected Men Aware of Their Infection at Time of Interview Among Young Men who have Sex with Men



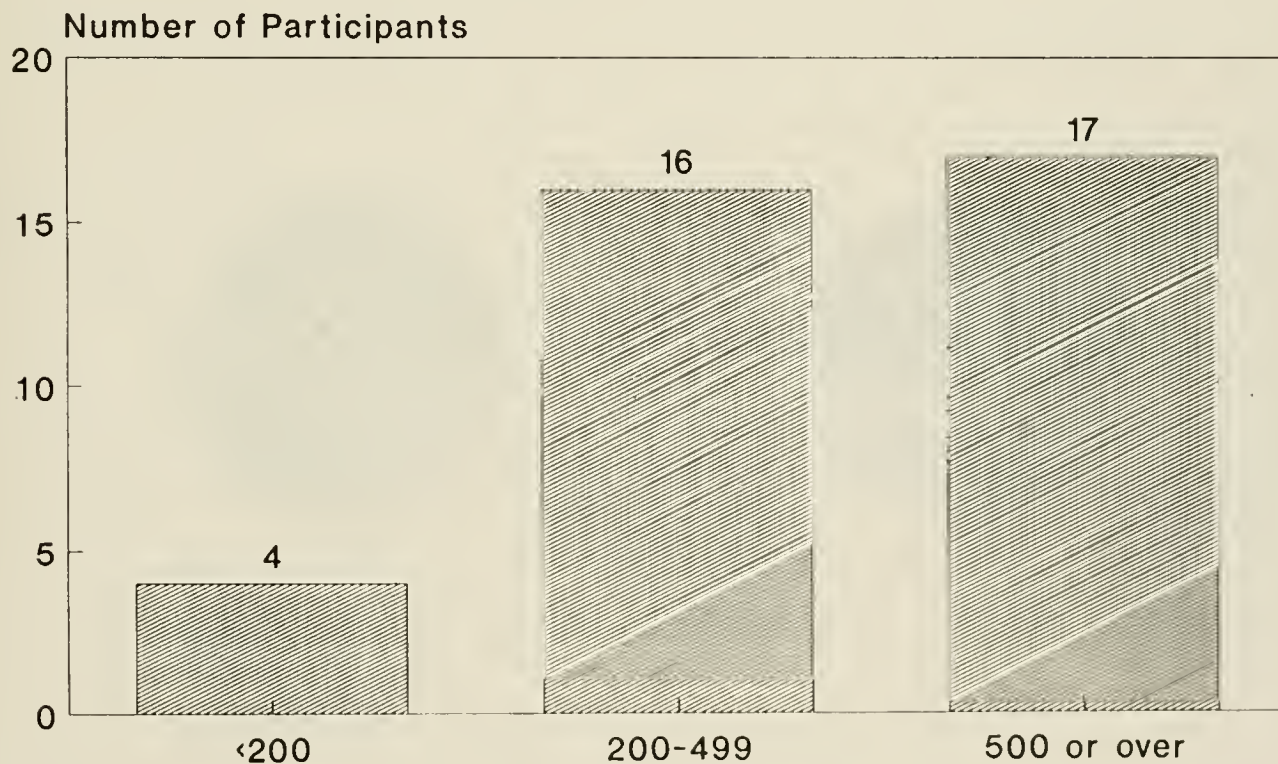
(n=40)

YMS: San Francisco/Berkeley, 1992-93

Percentage Returning for Test Results Among Young Men who have Sex with Men YMS: San Francisco/Berkeley, 1992-93

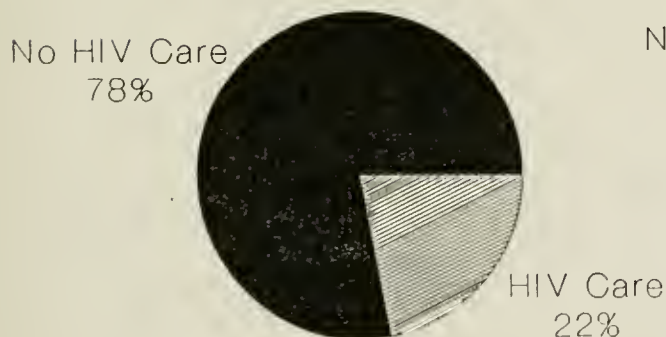


CD4+ Lymphocyte Count Among HIV-Infected Young Men who Have Sex with Men YMS: San Francisco/Berkeley, 1992-93

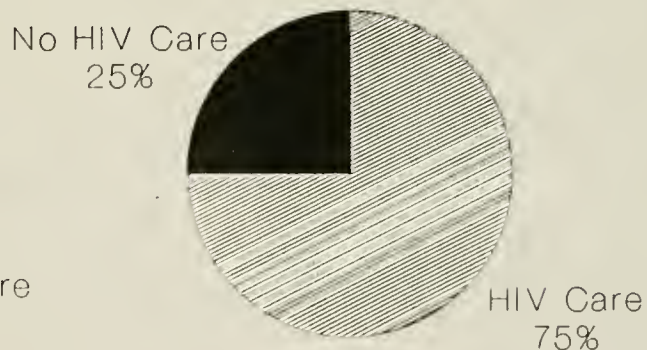


Percentage of HIV-Infected Men in Primary Care

YMS: San Francisco/Berkeley, 1992-93



All HIV+
(n=40)



HIV+ Aware of Status
(n=12)

